

NorCal Engineering

Soils and Geotechnical Consultants
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(562) 799-9469 Fax (562) 799-9459

February 3, 2005

Project Number 11233-04
Permit No. 04030-10000-02507

Boeing Realty Corp
15480 Laguna Canyon Road #200
Irvine, California 92618

RE: **Response to City of Los Angeles Compaction Report
Correction List** – Proposed Office/Warehouse Project – Located at
1451 West Knox Street, in the City of Los Angeles, California (Lot 8,
Tract 52172)

Dear Sirs:

The following is in response to the above referenced correction list (attached).
Items are addressed in the same order in which they appear on the list, for
clarity.

Item 1

Correct legal description is given above. Job address, as it appears on the City
of Los Angeles Grading Permit, is 1451 West Knox Street (see attached).

Item 20

A copy of our original report dated March 13, 2004, has been forwarded to
Inspector Jain at the City of Los Angeles.

Item 21

The depths of fill indicated on the plan included in our January 20, 2005 are
depths of fill placed during the recent grading operations. Fill depths of 10 to 30
feet were already present on the subject property prior to recent grading, placed
during previous mass grading operations on the Boeing property and approved
by the City of Los Angeles. The required fill blanket beneath foundation is
therefore present in all areas.

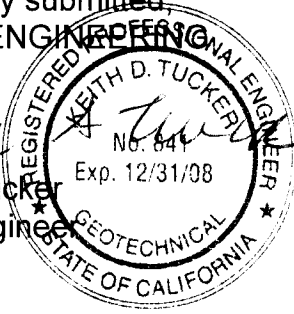
Item 22

No import soils were used during recent grading operations. The soil bearing
capacity of the compaction fill on-site was established using shear test data
included in our March, 2004 report. A copy of the shear test results is attached
for easy reference.

We appreciate this opportunity to be of service to you. If you have any further questions, please do not hesitate to contact the undersigned.

Respectfully submitted,
NORCAL ENGINEERING

Keith D. Tucker
Keith D. Tucker
Project Engineer
R.G.E. 841



Mark A. Burkholder
Mark A. Burkholder
Project Manager

NorCal Engineering



City of Los Angeles COMPACTION REPORT CORRECTION LIST

LOG# <u>46817</u>	DATE <u>2/2/2005</u>	COMPACTION FILE - 5
JOB ADDRESS <u>1415 W KNOX ST.</u>	DISTRICT OFFICE <u>WLA-SP</u>	
TRACT <u>S2172</u>	COUNTY REF. # _____	
BLOCK _____	PERMIT No. <u>04030-10000-02507</u>	
LOT <u>8</u>	ARB _____	
USE OF FILL: <u>PRIMARY STRUCTURAL</u>	DA TED <u>1/20/2005</u>	
REPORT PREPARED BY: <u>NORCAL ENGINEERING</u>		
REPORT #: <u>11233-04</u>		
OVERSIZED DOCUMENTS	X-REF _____	DATED _____
REVIEWED BY <u>K. STAIN</u>	TELEPHONE <u>213-482-0397</u>	

The compaction report(s) have been reviewed by the Grading Section of the Department and you are advised that the approval of the report(s) is withheld for the reasons hereinafter set forth. The approval of the reports will not permit the violation of any section of the Building Code, or other local ordinance or state law.

NOTE: Numbers in parenthesis () refer to Code sections of the 1998 edition of the California Building Code, Information Bulletin (P/BC).

INSTRUCTIONS

- Corrections with circled item numbers apply to this report review.
- Submit three copies of the report to the grading section. At least one copy of the report shall be an original with wet signatures.

- ① Address and legal description of the site, and the grading permit under which the work is authorized. (Address and legal description of the report, Certificate of Compliance, and grading permit shall be the same.) CORRECT LEGAL DESCRIPTION IS GIVEN ABOVE AND SHALL BE ON ALL REQUIRED PAGES.
2. Plot plan with:
 - a) north arrow & scale;
 - b) showing location limits of fill;
 - c) showing depth of fill;
 - d) location of in-place density tests;
 - e) location of retaining walls and their subdrains;
 - f) property boundaries; and streets;
 - g) building footprints and adjacent structures/sidewalks, etc.;
 - h) toe and top of slopes;
 - i) subsurface cross sections required at _____
3. Statement that inspection and approval by the soils engineer of:
 - a) the bottom of excavation before placing the fill;
 - b) subdrains before placing gravel backfill.

(108.9 and 7011.3)

Log# 46817

4. Statement of purpose and use of fill: (primary structural for supporting footings, secondary structural for supporting walkways/paving, non-structural for landscaping, etc.)
5. Description of each of the following:
 - a) Materials encountered at the bottom of the excavation;
 - b) Preparation of the bottom prior to placement of fill;
 - c) Fill/backfill placement, and preparation;
 - d) Method of mechanical compaction;
 - e) Identify fill material used with Unified Soil Classification System, maximum dry density, and optimum moisture;
 - f) Moisture content control method and results;
 - g) Thickness of the uncompacted fill lifts (typically 6-8 inches).
6. Results of all density tests with applicable ASTM or UBC standard designation numbers, compaction standard, and depths.
7. _____ is not on the list of City-Approved Soil Testing Laboratories. Call the Department's Materials Control Division (213) 977-6907 for information on licensing procedures. (P/BC 2001-58)
8. Soils engineer may employ a City Approved Laboratory to perform the testing, if the Department is provided with: a letter of responsibility, stating that the soils engineer concurs with the test data and results, and accepts responsibility for using it. A copy of the laboratory report signed and stamped by the laboratory engineer shall also be provided.
9. Field tests should be taken at every two vertical feet or for every 500 cubic yards of fill placed, whichever is more restrictive.
10. Test results showing less than required relative compaction (90%, 92%, 95%, or higher percentage if recommended to, and approved, by the Department) are not acceptable.
11. Description of removal and recompaction of the unacceptable fill and its retesting shall be included.
12. Statement that nuclear testing was performed in conformance with P/BC 2001-28.
13. At least one sandcone test (A.S.T.M. 1556) shall be taken for each five nuclear tests (A.S.T.M. 2922 and 3017).
14. Recommended bearing capacities and minimum embedments of footings in compacted fill (primary structural fill).
15. Expansion index testing shall be provided or recommendations for special design for highly expansive soil (supporting material is Class of Material No.5 in Table 18-I-A).
16. Where design values exceed those shown in Table 18-1-A and are not justified by an approved soils investigation report, additional tests for maximum dry density, moisture content, direct shear tests, and consolidation may be required. Where support may be provided by import materials additional tests may be required.
17. As-built subsurface cross sections and shear test results conducted on undisturbed samples taken during grading for buttress fills and slopes steeper than 2:1.
18. A Certificate of Compliance that is completed, signed, and sealed by the Soils Engineer (correct address and legal description shall match permit).
19. Attach a copy of the Department Approval letter for the Soils Investigation and a single copy of the previously approved Soils Investigation Report.

ADDITIONAL COMMENTS

- ②⑥ PROVIDE A COPY OF THE REVISED SOILS REPORT (11233-04) UNDER WHICH YOU RECOMMENDED CHANGE OF USE FROM SECONDARY TO PRIMARY STRUCTURAL FILL.
- ②⑦ ON PAGE 2, YOU STATED THAT A MINIMUM OF 3 FEET OF COMPACTED ENGINEERED FILL IS REQUIRED BELOW/BENEATH FOUNDATIONS. YOUR PLOT PLAN SHOWS FILL ONLY 1 TO 3 FEET AT PLACES. THESE ARE TWO CONFLICTING STATEMENTS. MINIMUM DEPTH OF FOUNDATION IS 24 INCHES. TO HAVE 36 INCHES (BENEATH FOUNDATION) COMPACTED FILL, AT LEAST 6 INCHES OF COMPACTED ENGINEERED FILL IS REQUIRED.
- ②⑧ SILTY SANDY CLAY SOIL IS USED FOR BACKFILL AND COMPACTION. PROVIDE SHEAR VALUE CHART FOR THIS SOIL. IF THIS WAS ALREADY DONE AND PROVIDED IN SOILS REPORT, THEN YOU MAY IGNORE THIS REQUEST.



Grading
Commercial
Regular Plan Check
Plan Check Submittal

City of Los Angeles - Department of Building and Safety

APPLICATION FOR GRADING PERMIT AND GRADING CERTIFICATE

Last Status: Ready to Issue

Status Date: 11/30/2004

1. TRACT	BLOCK	LOT(s)	ARB	COUNTY MAP REF #	PARCEL ID # (PIN #)	2. ASSESSOR PARCEL #
TR 52172		8		M B 1262-59 62	057B193 125	7351 - 003 - ***

3. PARCEL INFORMATION

Area Planning Commission - Harbor
LADBS Branch Office - SP
Council District - 15
Cmpt. Fill Grd. - CFG-1000
Certified Neighborhood Council - Harbor Gateway South

Census Tract - 2920.00
Energy Zone - 6
Fire District - 2
Near Source Zone Distance - 5.7
Thomas Brothers Map Grid - 763-13

Thomas Brothers Map Grid - 764-A3

ZONE(S): M3-1 /

4. DOCUMENTS

ZI - ZI-1192	ORD - ORD-171965	CDBG - SEZ-Harbor
ZI - ZI-2130	CPC - CPC-1997-114-DA	AFF - OB-13184
ZI - ZI-608	CPC - CPC-1997-278-PPR	AFF - OB-13599
ZA - ZA-1997-327-CUZ-CUB	CPC - CPC-1997-278-ZC-GPA	

5. CHECKLIST ITEMS

Storm Water - NOI/SWPPP-1 to < 5 acres
Special Inspect - Grading: Area > 60,000 Sqft

6. PROPERTY OWNER, TENANT, APPLICANT INFORMATION

Owner(s):

Tenant:

Applicant: (Relationship: Architect)

Greg Fick - Tait And Associates

(714) 560-8200

7. EXISTING USE**PROPOSED USE**

(60) Grading - Non-Hillside

8. DESCRIPTION OF WORK

Site grading for proposed construction of a warehouse building. Cut = 10,700 Cu. Yds., Fill = 10,700 Cu. Yds.. Removal/recor paction = 8,175 Cu. Yds.

9. # Bids on Site & Use:**10. APPLICATION PROCESSING INFORMATION**

BLDG. PC By: Fred Wong

DAS PC By:

OK for Cashier: Fred Wong

Coord. OK:

Signature:

Date:

For information and/or inspection requests originating within LA County.

Call toll-free (888) LA4BUILD

Outside LA County, call (213) 482-0000.

(LA4BUILD = 524-2845)

For Cashiers Use Only: Permit # 04030-10000-02507

LA 01 20 12071 11 0004 00 7305

11. PROJECT VALUATION & FEE INFORMATION Final Fee Period

Permit Valuation: 18,875 cu yd

PC Valuation:

FINAL TOTAL Grading	3,656.35
Permit Fee Subtotal Grading	3,225.00
Plan Check Subtotal Grading	0.00
Plan Maintenance	64.50
O.S. Surcharge	65.79
Sys. Surcharge	197.37
Planning Surcharge	98.69
Planning Surcharge Misc Fee	5.00
Permit Issuing Fee	0.00

Grading Permit	\$2,225.00
Plan Check Fee	\$74.25
Plan Maintenance	\$64.50
O.S. Surcharge	\$65.79
Sys. Surcharge	\$197.37
Planning Surcharge	\$98.69
Planning Surcharge Misc Fee	\$5.00
Permit Issuing Fee	\$0.00
Total Total	\$3,656.35
Total	\$3,656.35

041A 67434

Sewer Cap ID:

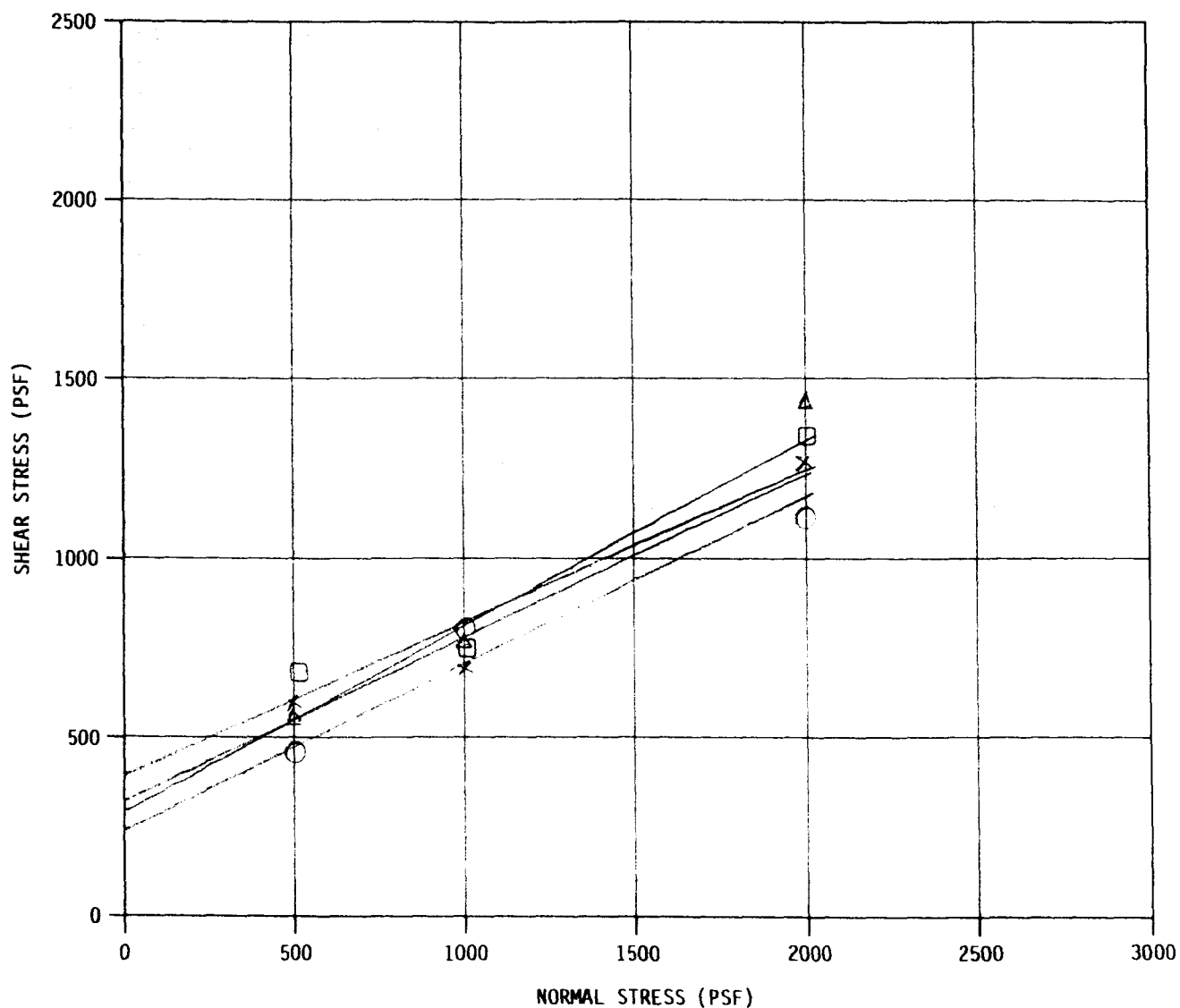
Total Bond(s) Due:

12. ATTACHMENTS

Plot Plan



* P 0 4 0 3 0 1 0 0 0 0 0 2 5 0 7 F N *



SYMBOL	BORING NUMBER	DEPTH (FEET)	ϕ (DEGREES)	C (PSF)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)
X	T-1	3.0	25	325	112.9	14.9
O	T-1	5.0	25	250	110.2	9.7
Δ	T-3	7.0	27	300	117.3	10.7
\square	T-4	10.0	23	400	110.8	14.6

NOTE: TESTS PERFORMED ON SATURATED SAMPLES UNLESS SHOWN BELOW.
 (FM) FIELD MOISTURE
 TESTS PERFORMED ON UNDISTURBED SAMPLES UNLESS SHOWN BELOW.
 (R) SAMPLES REMOLDED AT 90% OF MAXIMUM DRY DENSITY

NorCal Engineering
 SOILS AND GEOTECHNICAL CONSULTANTS

PLATE A
 DIRECT SHEAR TEST RESULTS

PROJECT 11233-04

DATE MARCH 2004